- The Mezica lead mine and foundry is located about four kilometers from the Austro-Yugoslav border, in the town of Mezice. The administration offices in Mezice control the whole organization, including all affiliated enterprises. Offices at Mezice include: planning, bookkeeping, accounting and the forestry and syndicate sections. The railroad station of the mine is at Prevalje. The whole enterprise includes: the mine, the foundry, and auxiliary installations and departments.
- The Mezica lead mine includes: the Mezica-Glancnik pit; the Helena pit; the Zerjav pit; the Rotlje pit, near Gustanj; the Litija lead mine; and the Lese coal mine, near Frevalj.
 - The first three pits, Mezica-Glanchik, Helena, and Lerjav, are interconnected. The main entrance and exit of the above three pits are located near Glancnik (Polena). In addition the zerjav and Helena pits have auxiliary exits. There are three working shifts: from 5 a.m. to 1 p.m., from 1 p.m. to 9 p.m., and from 9 p.m. to 5 a.m. The mine is equipped with three electric locomotives; two air-compressors (one on the right side of the entry of the Glanchik pit, and another in the pit itself); 10 water pumps, some of German origin, and others having been received from UNRRA; five drilling machines with compressed air were received from the UNREA and several fans for purification of the air. The Zerjav pit produces zinc in addition to lead.
 - The notifie pit is being explored. At the present time it produces a very small quantity of lead. Six tons are being transported by trucks to Polen twice weekly. From Polen the lead goes to the sorting department at Zerjav by means of either electric train or cable carrier. A compressor and several drill machines are operated in the Kotlje pit.
 - c. The Litija lead mine is located about five miles from the Litija railroad station. This mine is administered from Mezica because all its ore is processed in the Zerjav foundry. The production of this mine is even smaller than that of Kotlje, amounting to two tons of crude ore per week. The ore is transported by truck to the Litije railroad station; from Litije it goes by train to Prevalje, and from here by electric train to the Zerjav foundry.
 - The Lese coal mine, located between Prevalj and Gustanj, has become part

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of the Mezica enterprise. The coal from this mine is used by the Zerjav foundry. The mine is connected with the Prevalje-Maribor regular rail-road line by its own Zerjav-Prevalje industrial railroad line.

- 3. The Zerjav lead foundry is equipped with: five furnaces for the melting of the lead; two electric mixers; one broiler for the broiling of the zinc powder; one blast furnace; and two exhaust fans to draw out the gas and smoke through a smoke-stack. The foundry, the broiler, and the blast furnace have four inter-connected blowers run by a single electric motor of 95 horsepower and 350 volts. The foundry works continually including Sundays, in six working shifts of four hours each.
- 4. The auxiliary installations of the lead mine and foundry are spread along the Meza River. However, they are grouped mainly in the Mezica-Glancnik-Polena, and Zerjav regions.
 - a. The Mezica-Glanchik-Polena region contains the following installations and departments:
 - 1) The working ground, where the ore from all the pits is collected. Here are also located the main entrances as well as the main exits of all the pits, excepting the auxiliary exits of the Lerjav and Helena pits.
 - 2) Mine administration.
 - 3) The storehouses.
 - 4) The office of supply.
 - 5) The mechanic workshop which is equipped with:

Two electric boilers;
Four autogenous or self-generated boilers;
Three grinders;
One forge with bellows;
Four drilling machines;
Six turner's benches;
One horizontal plane or scraper;
One vertical plane or scraper;
One press; and
Various carpenter's tools.

- 6) The electric train which transports the crude ore to Lerjav also serves for the transportation of the workers.
- 7) Two small hydro-electric plants in Mezica and Polen together with the derjay and Grna hydro-electric plants furnish the power to the whole enterprise. This power is transmitted through the transmitting station at Zerjay.
- b. The Zerjav region contains:
 - The department which produces lead plates of 50 kilograms. The lead witch is to be used in Yugoslavia is refined only once, while the lead destined for export to the United States and England is refined twice.
 - 2) The department producing lead pipes.

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- 3) The department producing small shot for hunting cartridges.
- 4) The department producing yellow lead.
- 5) The descriment producing zinc powder.
- 6) The department producing lead colors.
- 7) The solting department, using the following equipment:

Two one milks, of German origin; Severbeen mixers; each one has its own motor;

Two ryers for zinc ore;

Three crumbling machines for lead ore, of German origin;

One belt of gummed linon;

To machines for the sorting of the ore; and

The chemical laboratory, where eight employees and two workers work.

The tork in the sorting department is done in two shifts; one starts at fig.m. and finishes at 1 p.m., and the other starts at 1 p.m. and finishes at 9 p.m. At night the work is done by the watch-workers as well as the workers operating the dryers and the crumbling machines. This department is connected with Folen by cable-carrier. The crude ore from all of the pits is brought to this department.

- 8) The electrical department, which is a separate enterprise, comprises:
 - a' The electrical department.
 - The transforming station called Komanda Toka Rudnika. It connects the four plants furnishing power to the mine. This station is also connected with the thermo-electric plant at Velenje and the hydro-electric plant at Dravograd.
 - c) The electro-technical workshop.
 - d) The oil and lubricants refinery and its store-house. In the store-house are stored motor oils, oils for transformers, turbines, and other special oils and lubricants. This is one of the most modern enterprises in Slovenia. It was constructed by the Germans and uses three machines for the refinement of used oils. The oil tanks have a capacity of 2,000 liters. The store-keeper is a certain Voncina, his assistant is Franc hamnik. The administration and personnel file is done by Drago Brumen.
- 5. The Zerjav hydro-electric plant. At about two kilometers from Zerjav, in the direction of Crna is located an underground hydro-electric plant. The entry to this plant is near the main Prevalje-Crna road, and it is very closely watched by the industrial militia. Only those who have the permit of the director of the mine can enter. The plant itself is constructed about one hundred and twenty meters under the ground. The water chamber is about eighty meters above the plant, which makes a fall of water of about eighty meters. The water from Meza River runs from Crna to the plant by an underground tunnel about three kilometers long. After its passage through the plant, the water continues underground for another five kilometers to about one kilometer before Mezica, where it enters again in its normal river-bed. At the present time two turbines are in operation. The installations and the machines are marked GANS, having been put there during the war by German experts. A place for a third turbine which is expected from Austria is

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reserved. This plant, like the three small plants on the Polena, Mezica, and Crna, furnishes the power exclusively to the mine through the transforming station.

- The main garage of the mine located in Zerjav is administered by the transportation department of the mine which holds: eight trucks, one bus for 80 persons, three passenger cars, and two firemen's cars. The gasoline is brought from Dravograd every two or three months by four trucks, each one carrying 35 barrels (every barrel has a capacity of 200 liters). The gasoline as well as the oil are delivered by Jugopetrol.
- b. The mine has two gasoline reservoirs: The first has a cylindric form and is hidden in a small hill, one kilometer from the main Zerjav-Crna road. The capacity of this reservoir is 37,000 liters. The entry to the above mentioned small hill is first protected by a wooden door. About twenty meters before the entry in the reservoir there is a steel door about six millimeters thick. Near the reservoir is placed a Vogel-pumpe No. 2 type hand pump. The second reservoir is located beyond the Zerjav transforming station at about one kilometer in the direction of Jazhina. It has a square shape and a capacity of 48,000 liters. Its pump is also operated by hand.
- c. The daily consumption of gasoline is from 470 to 520 liters. However, sometimes it drops to 200 liters. The daily consumption of naphtha is about 240 liters. The gasoline is mainly American (red-yellow) with a specific weight of 72-76. There is also some Soviet, white gasoline which is not good. The naphtha has a specific weight of 87 and is packed in American barrels. The mine receives the lubricant for the cable carrier, another lubricant for the ball-bearings, and other kinds of lubricants as well as special oils, all marked SAE 40-60-90. There is also an oil marked GO, another marked HDL, and still another for differential gears. The turbine oil is received from Jugopetrol, Ljubljana. The oils and the lubricants are all stored in the main oil storehouse, which is part of the electric department of Zerjav.
- 6. A water-trench is being dug near Prevalje. The purpose of this trench is to conduct the Meza River underground, from Mezica to Prevalje, because an underground hydro-electric plant is to be constructed in Prevalje. The power of this plant will also be transmitted to the mine. On this trench are now used: one diesel motor, of UNRRA origin, three perforators, and three water-pumps.
- 7. A small hydro-electric plant in Crna is administered by the Director of the mine. This plant is connected with the transforming station in Zerjav. With the three other hydro-electric plants, it furnishes the power to the mine.
- 8. The foundry at Zerjav produces (includes pits at Mezica-Glancnik, Helena, Zerjav, Kotlje, and Litija), a maximum of 30 tons daily. However, the production drops often to 8 to 12 tons. This drop is due to the slow work of the sorting department, where only women are employed. The women, who have to sort the ore from the stones, tire soon—from the hard work. Furthermore, the frequent interruptions of electric current stop the machines on a number of occasions. The production of the zinc ore is from 8 to 10 tons daily. The products of the mine and the foundry are routed as follows: The lead, refined once, is sent to Cerbia; the lead, refined twice, is sent to the United States and England. The zinc is sent mainly to the zinc plant in Celje. The lead plates, pipes, and small shot are sent to Yugoslavia for domestic use.
- 9. Through its transforming station the mine receives the power from its four hydro-electric plants, the thermo-electric plant of Velenje, and the hydro-electric plant of prayograd. It receives the coal mainly from Trbovlje and

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Velenje, and a small part from its own Lese coal mine. The mine receives the gasoline and the cils from Jugopetrol; the reserve of hard, egg-sized coal is delivered by Czechoslovakia. The supply should last two more years.

10. With all i's affiliated branches, the mine employs about fifty functionaries, and three thousand five hundred workers. The working shifts are not identical in all the departments. For instance, the foundry works without interruption is six shifts, of four hours each; the sorting department, on the other hand, works in two shifts, of eight hours each. In the pits, the work is done in three shifts, of eight hours each, while all the other departments have only a single shift which begins the work at 5 a.m. and finishes at 1 p.m. The mine is connected with the regular Prevalje-Maribor railroad line by its own industrial herjay-Prevalje railroad line. The trains of this latter line have the following schedule: Departures from Zerjav at: A.M. 4:10, 5:10, 11:10; P.M. 1:10, 6:10, and 9:10. Departures from Prevalje: A.M. 4:30, 5:30, 12:10; P.M. 5:00, 7:30, and 10:30. The workers are considerably dissatisfied with the bad food.

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